

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/17877

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61M27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | DE 41 11 122 A (NEHER) 29 April 1993 (1993-04-29) | 1-19 |
| A | * THE WHOLE DOCUMENT * | 20-42 |
| X | GB 1 549 756 A (EVERETT ET AL.) 8 August 1979 (1979-08-08) | 1 |
| A | abstract; claims 1-6; figures 1-3 | 2-42 |
| A | US 5 735 833 A (OLSON) 7 April 1998 (1998-04-07) | 1-42 |
| A | abstract; figures 1-5 | |
| A | US 4 224 941 A (STIVALA) 30 September 1980 (1980-09-30) | 1,9,10 |
| | abstract; figures 1,2 | |

-/-

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/17877

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|---------------------|
| DE 4111122 A | 29-04-1993 | DE 3935818 A | 02-05-1991 |
| GB 1549756 A | 08-08-1979 | CA 1127488 A | 13-07-1982 |
| | | DE 2809828 A | 21-09-1978 |
| | | FR 2382900 A | 06-10-1978 |
| | | JP 1338799 C | 29-09-1986 |
| | | JP 53113188 A | 03-10-1978 |
| | | JP 61001148 B | 14-01-1986 |
| US 5735833 A | 07-04-1998 | NONE | |
| US 4224941 A | 30-09-1980 | NONE | |
| US 4661093 A | 28-04-1987 | DE 3321151 A | 13-12-1984 |
| | | AT 36242 T | 15-08-1988 |
| | | DE 3473229 A | 15-09-1988 |
| | | EP 0128388 A | 19-12-1984 |
| | | JP 1709724 C | 11-11-1992 |
| | | JP 3075184 B | 29-11-1991 |
| | | JP 60007851 A | 16-01-1985 |
| | | JP 1838924 C | 25-04-1994 |
| | | JP 4261670 A | 17-09-1992 |
| | | JP 5029469 B | 30-04-1993 |
| | | US 4792328 A | 20-12-1988 |
| | | US 4936834 A | 26-06-1990 |
| EP 0880953 A | 02-12-1998 | DE 19722075 C | 01-10-1998 |
| | | DE 29715634 U | 06-11-1997 |